

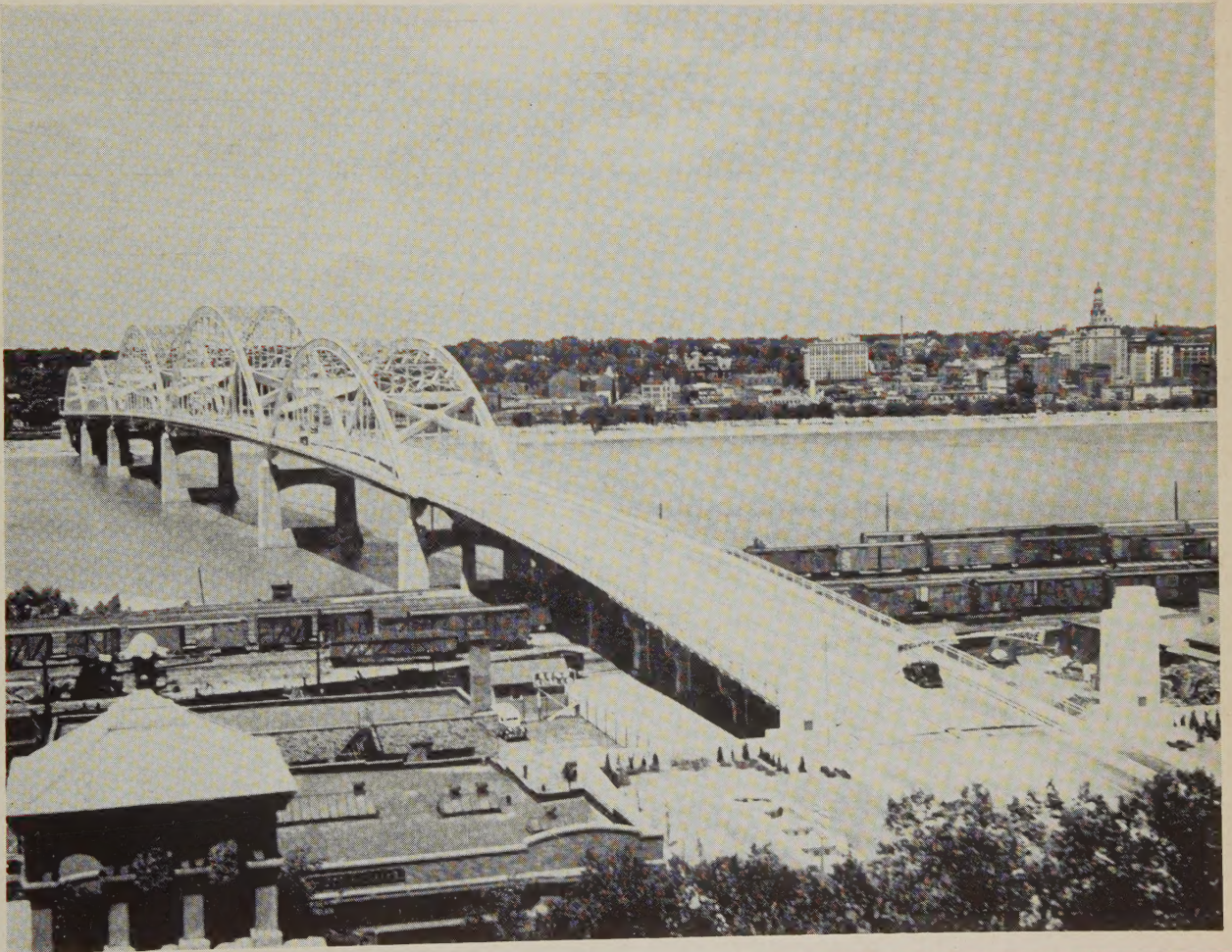


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the **ILLINOIS ENGINEER**



68th ANNUAL MEETING, ROCK ISLAND, MARCH 26, 27, 28, 1953



CENTENNIAL BRIDGE—ROCK ISLAND
(Attend 68th Annual Meeting)

THE ILLINOIS ENGINEER FEBRUARY, 1953—VOLUME XXIX, NO. 2

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Of Professional Interest

THE ILLINOIS ENGINEER—THIS MONTH

NATIONAL ENGINEERS' WEEK

When you read this, National Engineers' Week will be just ahead—February 22 to 28, 1953. If you are having a special program in your Chapter, be sure that news of that program appears in your newspaper and is broadcast from your local radio station. If you are not having a chapter program see that the people of your locality are informed of the event anyway.

National Engineers' Week is sponsored by your Society, the National Society of Professional Engineers, an organization of 28,000 registered professional engineers with 300 Chapters in 39 State Societies. These men are leaders in their communities and are all interested in community betterment.

No doubt your Chapter is carrying on some activity of community interest—smoke abatement, highway improvement, improvement in parking facilities, or a new school. Whatever it is, see that your news article contains information concerning your project so that the public will hear of it, so that they will be able to truly evaluate the work of the engineering profession.

EDITOR

ENGINEERS' WEEK RADIO PROGRAMS

Your Illinois Society is playing a major role in the 1953 celebration of National Engineers' Week. In co-operation with the National Educational Broadcast Tape Network and the National Society of Professional Engineers, the Illinois Society has been the promoter of two fifteen-minute broadcasts which will be aired over 44 stations of the network. "A Leap in the Dark," the story of the Roeblings and the Brooklyn Bridge, was produced and taped in Champaign-Urbana. The second show, "Our Engineered Age," was produced in Washington and records the voices of Doctor Steinmann, General Sommerville, and Mr. Noble. The two tapes have been reproduced and sent out to the 44 stations from California to Boston and from Minnesota to Miami and will be aired during the week of February 22nd to the 28th.

The promotion, begun over a year ago by Assistant Secretary Roberts, will bring national attention to the Illinois Society and if the programs attract a sufficiently large audience should become an annual event. Plans have already been outlined to dramatize the building of the Holland Tunnel for presentation next year.

WBAA, Lafayette, Ind.; WILL, Champaign-Urbana; WBEZ, Chicago; WHA, Madison, Wis.; WNUR, Evanston; and WSUI, Iowa City, Iowa, will carry the programs in the listening area of the Illinois Society. Watch for the programs during the week of February 22 to 28 and jot down your impressions for the record.

PRESIDENT'S MESSAGE

At the January 17, 1953, meeting of the Board of Direction in Decatur, Secretary Harold E. Babbitt announced his retirement from office at the conclusion of the 68th annual meeting this coming March. This announcement was received with mixed feelings, for Professor Babbitt and the office of Secretary of the Illinois Society of Professional Engineers have been synonymous for many, many years. The nomination of Harold Babbitt to the Executive Secretaryship has been a formality for the nominating committee since 1924, and his acceptance of the position has been taken for granted.

The announcement that he would not accept renomination next year came as a decided shock, but one must also recognize that so many years of untiring effort on behalf of the Society has long since earned the privilege of retirement.

Mr. Babbitt first joined the Illinois Society of Engineers in 1916, and by 1917 he was active as a member of a state committee. In 1921 he was chairman of a state committee and in 1922 he was elected Vice-President of the Society. The following year he became the thirty-seventh President of the organization. At the conclusion of his term, Mr. E. E. R. Tratman, who had served as Secretary for twenty-one years was elected to the office of President and Mr. Babbitt assumed the duties of Secretary, which office he has filled continuously since that time except for a period of a little over a year when he was on leave of absence from the University, during which time Mr. W. D. Gerber took over his duties.

All but a few of our new members know and admire Secretary Babbitt, but those who have served with him on the Board of Direction at various times during the thirty years that he served, have perhaps come to know him somewhat better than most others in the Society, and that group hold him in the greatest esteem and with deep affection. Over the many years he has been the spark plug, and at times the prime mover, of the Society. He has nursed the Society through the doldrums of depression years, and he has fanned the embers which have burst into the flame of Society activity. In February of 1925, Volume 1, Number 1 of the ILLINOIS ENGINEER

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READ THE ADVERTISEMENTS

SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., at 631 East Green Street, Champaign, Illinois.
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was published with Mr. Babbitt serving as Editor. He continued as Editor until 1944 when our present Editor, Mr. W. A. Oliver, took over, at which time Babbitt became Associate Editor. The Illinois Professional Engineering Act might have become an accomplished fact without the work of our Secretary, but it would not have appeared as a law for many more years had it not been for the untiring efforts of one Harold E. Babbitt. He has watched over finances, and he has kept the Society solvent; he has been vigilant to keep the accomplishment of Society objectives always before us, and he has led the way in so many activities that it is impossible to record them all.

If any man has earned the right to be known as "Mr. Illinois Society," that man is Harold Babbitt.

It is with deep regret that we accept Mr. Babbitt's decision to retire. We can give him no further honors, for he is already an Honorary Member, and he has received the Illinois Award on two occasions. All we can do is accept the inevitable conclusion of an era in which one man gave profusely of himself for the benefit of his fellow engineers and his profession. We trust that his retirement will give him a well-earned rest, and we trust that his faith in the future management of the Society is well placed. To you, Harold Babbitt, we extend our heartfelt thanks for a job well done, and we pledge to you our efforts to continue along the path you have so diligently surveyed and mapped in the past. *Saluté!*

A. D. SPICER, *President, I.S.P.E.*

President's Datebook

January 17—Elements conspired to make hazardous the journey this day to Board of Direction assembly in Decatur. Arrived half after the appointed hour to find a few others from the icy northern counties even later. Alarmed at appearance near noon of Chicago's Edwards, DeMent and Sommerschild with tale of overturned auto enroute. Reassured when no bodily harm discovered, but chagrined to learn of extensive damage to Sommerschild's car. Journeyed home that night at even slower pace.

January 21—Dined with Lake County's finest this night, and mentioned briefly some of professional problems facing engineers. After adjournment, spent next two hours in impromptu educational session. Learned much from Chapter viewpoint and hope several items were clarified regarding State program. Back to Kewanee the following day via North Shore and Burlington. No more icy weather driving!

Datebook now covers all chapters but Egyptian, from whom no word received. All that remains is several lectures to non-society groups, the Chapter Officers' conference and then, the Annual Meeting!

One man with courage makes a majority. — Andrew Jackson.

VOX SECRETARII

ASSISTANT SECRETARY P. E. ROBERTS

Winter Board of Direction Meeting

The Board of Direction met in the New Y.M.C.A., Decatur, Illinois, on January 17. In spite of the icy condition of the highways, eighteen members of the Board and four guests were present at the noon luncheon.

One of the highlights of the meeting was Mr. Crawford's report as chairman of the Ethics and Practice Committee. Ten days prior to the meeting, Secretary Babbitt had a call from the State of Illinois Division of Highways requesting a clarification on the subject of Soils Investigation and Analysis. The specific question was, "Should the making of test borings for foundation work and the analysis of soil samples be put out for competitive bids or is this professional work?" Ten of the fifteen members of the committee made written reports on the question to Chairman Crawford. Quoting from the report:

a. The work of taking soil samples and performing laboratory tests on the samples, together with a report on the results of such tests (without interpretation of the effect of the results on possible design) are matters that can clearly be described in specifications and which do not require professional analysis and decisions and are, therefore, clearly of a nature making competitive bidding proper.

b. Professional services are required to analyze the results of the laboratory tests and to determine wherein the results might affect design. This type of service should not be subject to competitive bidding.

c. In the event the Division of Highways contracted for the taking of samples and made the analysis in their own laboratory, no violation of ethics would be involved.

d. If the specifications had called for a laboratory report of the prescribed tests, rather than an engineering report, we believe that there could be no criticism in advertising for bids.

It is recommended that the opinions as outlined above, be adopted by the Board of Direction and that the Secretary's office be directed to so notify Mr. Knight, Assistant Chief Highway Engineer, Illinois Division of Highways.

The Board of Direction unanimously adopted the report of the Ethics and Practice Committee.

The above is a good example of speed and the clarity with which both the Board and Society committees act. It also substantiates the fact that the Illinois Society of Professional Engineers is the recognized authority on professional and economic matters of interest to all engineers.

The Board also approved the constitutional amendment presented by petition from Chapter Representative J. R. Gardner. Your ballot and the petition will be found elsewhere in this issue.

Miscellany

The second printing of the Third Edition of the Examination Book has been delivered. . . . Refresher course classes in preparation for the May 12th and 13th professional engineering examination will be held in Chicago, Joliet, East St. Louis, Springfield, and Urbana beginning the middle of February. . . . Next big event—the Annual Meeting, Fort Armstrong Hotel, Rock Island, Illinois, March 26, 27, and 28. Plan to attend.

TENTATIVE PROGRAM 68th Annual Convention

FORT ARMSTRONG HOTEL, ROCK ISLAND

MARCH 26, 27, 28, 1953

Thursday, March 26

MORNING

7:30 Board Meeting Breakfast

9:00 Registration

AFTERNOON

1:30 Address, "Unionization of Engineers"—Wagner

1:30 Field Trip, Case Farm Equipment Co.

Board Meeting Continues

EVENING

7:00 Smörgåsbord—Ladies included

Entertainment and Dancing

Friday, March 27

MORNING

9:00 Registration

9:00 Movie

9:30 Annual Business Meeting

12:00 **Noon:** Annual Luncheon — Engineering Address of General Interest

AFTERNOON

2:00 Resume Annual Business Meeting

3:30 Address by President John D. Coleman, N.S.P.E.

4:15 Resume Annual Business Meeting

EVENING

7:00 Annual Banquet. Address by Senator Frank Johnson. Social evening.

Saturday, March 28

MORNING

9:00 Meeting of New Board of Direction

(All Members of the Society are invited to attend)

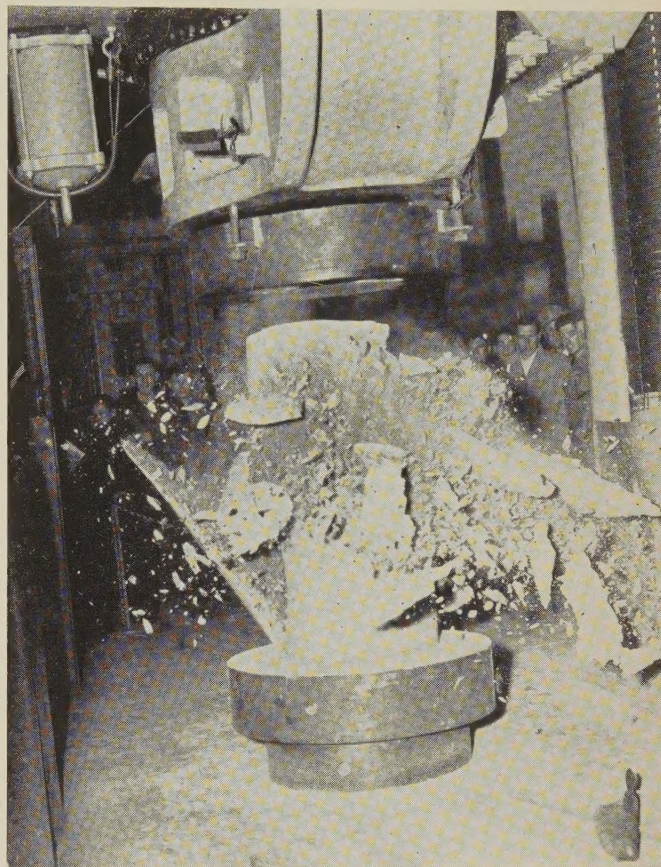
ENTERTAINMENT FOR THE LADIES

Friday morning coffee hour at which President Coleman of N.S.P.E. has been invited to talk about Ladies' Auxiliaries in the Various State Societies. Card party in the afternoon.

ENGINEERING STUDENTS SET OPEN HOUSE

**Annual University of Illinois Event Planned
for March 27-28**

Biennial engineering open house at the University of Illinois will be held March 27 and 28, with every department in the College of Engineering planning exhibits and demonstrations. The open house, a traditional biennial event since the 1920's, will be held from 10 a. m. to 10 p.m. March 27 and from 9 a.m. to 6 p.m. March 28.



WHAM! BOOM!

The crowd around the 3,000,000-pound hydraulic testing machine in Talbot laboratory really jumped when the machine crushed the huge concrete cylinder under a pressure of over 2,000,000 pounds.

The affair is intended to acquaint the public with the engineering facilities for training students and conducting research at the University. Students and faculty cooperate in presenting the exhibits and in explaining and demonstrating apparatus to visitors. Most of the exhibits will be of a serious nature but a few of them, such as the Kissometer and the Strength Tester, are in a humorous vein.

Free city buses will take visitors to the far corners of the campus, stopping at the Chemical Engineering Building, the Agriculture Engineering Building, the Betatron Laboratory, and Abbott Power Plant. Guided tours will be conducted through both these and other exhibits.

Among unusual exhibits shown at the open house will be aircraft engines and testing devices in the aeronauti-

cal engineering laboratory, spraying and firing of porcelain enamels and slip castings of pottery in the ceramics building, and displays of mining equipment in the mining laboratory.

The mechanical engineering department will feature exhibits such as tool displays, gas welding and cutting, and gasoline and diesel test engines. A cutaway of a jet

engine and a motorist reaction tester will be among exhibits in the mechanical engineering laboratory.

Demonstrations in the metallurgical laboratory will make metal shrink, cry out loud, and turn hot mysteriously.

The civil engineering department will feature, among other things, a model construction site and sanitary engineering exhibits.

Lake Level Experience Told to Lake County Engineers

(Prepared by CARL A. ANDERSON, Member I.S.P.E.)

Approximately 40 members and guests of the Lake County Chapter of the Illinois Society of Professional Engineers recently had the opportunity to learn authentic facts about Lake Michigan water levels, beach erosion and protection methods, as related by Mr. William Santina and Mr. George Lykowski representing Col. Trower, Army District Engineer of the Great Lakes Division.

It was stated that the general public has been very much concerned with lake levels this past year, and that many private property owners have experimented and contributed many ideas for the prevention of lake shore erosion. During 1951 and 1952, there was approximately a \$61,000,000 shore line damage on the five great lakes, of which \$30,000,000 worth of damage occurred on Lake Michigan. The 63 mile shore line in Illinois had an \$11,000,000 damage which was 19% of the damage on the 5 great lakes. Indiana suffered \$5,200,000 worth of damage.

Lake Michigan low levels occurred in the years 1920 to 1942 with the record low level of 577.4 feet above sea level in 1926. The record high of 583.7 occurred in 1876. The high level this past year was 582.7 and occurred during August.

The major factors of lake level are the natural evaporation and filling from rainfall and flow of streams. Waterway gates can control only a very small percentage as compared with evaporation. If the air of any year or group of years is rather dry and warm the lake level will be lowered. A cold and wet summer will have from one and a half to three feet of evaporation, which is below normal.

Beach or shore line erosion is caused by wind and barometric pressures. A 25 m.p.h. wind lasting six hours or more can create waves with tremendous energy and washing effect at the shore. On a long shallow beach this tremendous energy is dissipated over a long stretch as compared with the waves directly striking an abrupt breakwater wall. When a wave strikes any shore the coarser materials will roll along the bottom and the lighter or finer material will be suspended in the water and will be deposited in deeper water out in the lake.

The method of breaking a wave to cause the least amount of erosion depends on the physical characteristics of the shore. Each shore area or tract of land along the lake shore may require special design of wave break-

ers. A sandy beach type of shore line would require a different type and method of breaking waves than a bluff type of shore.

Along the Illinois shore line, there are four major types of shore lines. From Kenosha to Waukegan is the beach type some of which is sand and some soil. In the last ten years, erosion has been from one to ten feet per year. From Waukegan to Wilmette the shore line is of the bluff type and in some areas can be undermined by the waves, creating a hazard at the tops of the bluffs. From Wilmette to Foster Avenue the shore line is chiefly made up of large stones, riprap and beaches. From Foster Avenue to the Indiana State Line the shore line is chiefly made up of man made build-outs using rock and fill.

The lake has an "along the shore current" which in past years has carried much of the northern soils and sands as washed out by erosion to the Chicago shore lines, where it is being deposited. Some believe that in the past centuries the Indiana sand dunes were formed in this manner.

The Army engineers have given considerable thought to the prevention of shore line damage to Public shore line areas, and many private consulting engineers have contributed wave breaker designs for private shore line properties.

The recommendations given at the meeting for preserving our shore line as much as possible, would be to build piers and develop the Groin systems from Kenosha to Waukegan, and wave breakers, piers and riprap to Wilmette. South of Wilmette, riprap and bulkheads would serve the best.

Because of man's developments and improvements along the Lake Michigan Shore Line, the general public will become more conscious of the necessity of preventing erosion and damage, especially during high lake levels. Many of the preventative measures will be built in the years when it is hoped and expected that lake levels will be lower thus resulting in cheaper construction.

COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 191.0 for December, 1952. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

CITY HALL, ROCK ISLAND, ILLINOIS



Meet your friends at the 68th Annual Meeting
Fort Armstrong Hotel, Rock Island
March 26, 27, 28, 1953

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PROFESSIONAL ENGINEERING EXAMINATIONS

New Book includes all of the examinations published in the first and second editions plus typical questions from the examinations given by the Department of Registration and Education, State of Illinois during 1950, 1951 and 1952.

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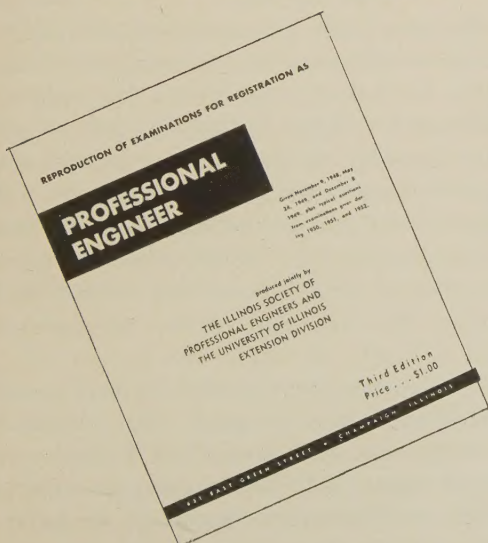
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News From Chapters

Rockford Chapter

Rockford Chapter held their regular meeting on Sept. 17, 1952.

President Lyle Porter called the meeting to order at 7:30 P.M. following a fine dinner and fellowship hour. He then conducted a short business meeting, with John Duguid speaking on the recent meeting of the Board of Directors in Chicago who reported our resolution on national membership dues standing pat.

The meeting was then turned over to Jack Laswell who introduced Mr. Howard Gustafson, district representative of the Phillips Petroleum Company, Chicago area, who gave us a very interesting and instructive talk on Liquid Petroleum, emphasizing the storage of this fuel in underground caverns.

There being no further business, the meeting was adjourned upon such a motion being duly made.

Rockford Chapter held their regular meeting on Oct. 16, 1952. Mr. Porter called the meeting to order at 7:45 P.M. and stated that inasmuch as there would be a Business Meeting on Wednesday, October 22, 1952 all business would be dispensed with and the meeting turned over to Mr. John J. Graven, Sponsor for the evening's program.

Mr. Graven then introduced Mr. J. P. Byrnes, area representative for Dearborn Chemical Company who introduced the following speakers: Mr. C. B. Smith, Asst. Mgr. Pipe Line Division; Mr. J. G. Surdick, Asst. Mgr. No-Ox-Id Sales; Mr. C. S. Silsbee, Technical Sales; Mr. E. M. Welch, Mgr., Water Treating Sales; and Mr. Anderson, Advertising Department.

All the talks were very interesting and instructive, and after a short recess a movie was shown illustrating the various processes followed by the Dearborn Chemical Company in coating and wrapping pipe. Following this a Smorgasbord was served.

Regular Meeting was held on Oct. 22, 1952.

Business at hand: Secretary's report of the September 17 meeting was read and approved.

Treasurer's report was read and approved.

The following new members were introduced: Russ Chalmers, Cent. Ill. Elec. and Gas Co. and E. S. Bradley, Cent. Ill. Elec. and Gas Co.

The following guest was introduced: Robert Noel, Micro Switch — Freeport.

Committee Reports

1. Membership—Royce Johnson, Chairman, reported the following new members had been added:

- 3 — E.I.T.
- 5 — Affiliate
- 1 — Student
- 3 — State and National

Mr. Johnson indicated that two additional E.I.T. members would undoubtedly be added shortly and asked that all members cooperate in his membership drive. He requested that a card be enclosed with the next Bulletin for member use in reporting prospects to him and this suggestion was adopted.

Program Committee — John J. Duguid, Chairman, advised that the next meeting date would be changed from Nov. 18 to Nov. 19. The program scheduled for that date has been cancelled, but another program would be arranged and announced later.

Special Committee Reports

Committee on membership buttons — Ed Young, Chairman, not present, but Mr. Duguid and Mr. Riedesel informed the members that a suitable button could be secured. Mr. Ed Groneki made a motion that each member pay 50 cents for his button and the Society pay the cost of the button Display board to be purchased. This motion was seconded by Harper Millard. A motion was made by Royce Johnson that we invite State cooperation, but after a brief discussion it was decided that this would delay our program too much. An amendment to the motion that the "engineers color scheme" be used on buttons was made by Bill Freeburg and seconded by Bob Galvannoni. This amendment was accepted and the original motion as amended was then carried also.

The Electrical Code Committee — Royce Johnson, Chairman, reported that he had talked with Alderman James Sheldon on revising the Electrical Code and that he was interested. Mr. Johnson indicated that the plan suggested was acceptance of the National Code with a few specific exceptions. Mr. Johnson pointed out that this National Code was the work of experts who have studied codes throughout the country, and these men were well qualified to set up a workable code. Mr. Porter commended Mr. Johnson on the work of his committee.

New Business

Mr. Lyle Porter advised that the Chapter had been requested to send two members to a meeting of the Rock River Council to be held Nov. 24, 1952. The suggestion has been made that our Chapter adopt the role of leader in coordinating meeting dates and other activities and aims of the professional organizations in this area. Mr. Riedesel explained the aims of the Engineering Council of which he is a member. Mr. Porter after a brief discussion announced he would refer this matter to the proper committee for study and further report by our next meeting.

Mr. Porter announced that there is urgent need for helpers for the Civil Defense program. Our Chapter has been asked particularly to serve on Plant Protection and Air Raid committees. Mr. Royce Johnson made the suggestion that the Stationary Engineers group could handle the Plant Protection efficiently. It was more or

Constitutional Amendment

In accordance with the action of the Board of Direction at its January 17, 1953, meeting, the proposed CONSTITUTIONAL AMENDMENT to Article IV, Section 2 of the constitution of the Illinois Society of Professional Engineers is herewith presented to the membership for its consideration and vote.

Report of the Constitutional Amendments Committee

Your Constitutional Amendments Committee reports that with respect to the amendment proposed by petition and submitted by Mr. J. R. Gardner, we find the proposed amendment in proper form to become part of the Constitution of the Illinois Society, subject to its approval by the membership.

(signed) GEORGE E. EKBLAW, Chairman

The Petition

We, the undersigned Corporate Members of the Illinois Society of Professional Engineers, hereby propose the following amendment to the Constitution and By-Laws and request that it be submitted to the Board of Direction and the Corporate Membership for letter ballot, as provided by Article XII of the Constitution and by Section 8 of the By-Laws. Proposed additions to the current Constitution and By-Laws are underlined.

Article IV of Section 2 of the Constitution

Corporate Members shall have the exclusive right to vote upon any matters pertaining to the Society, to hold office in the Chapters, and to display the insignia of the Society, except that an Engineer-In-Training may be elected to the Chapter Office of Secretary, or Treasurer,

less agreed that on Air Raid Shelters outside help would be needed.

Mr. Porter brought up the subject of Engineers' Week and announced that a special committee would be appointed to handle this. It is planned to include Freeport in this program and to put it over as big as possible.

Mr. Porter announced that nomination of officers would be made at the next meeting, and cautioned members that any nominations made from the floor in addition to those presented by the nominating committee must have the consent of the person nominated to conform to Chapter law. Mr. Porter further announced that several members were still delinquent in paying their dues and requested them to pay them promptly. Another Chapter Bulletin will be issued around November 1st.

Mr. Porter then asked Mr. Duguid, Chapter Representative to explain the proposed state constitutional amendment. Mr. Duguid explained that this amendment was designed to take nominations out of the hands of the governing committee and permit nominations from the floor. It was pointed out that this change could result in the nomination and election of poorly qualified officers

or Secretary-Treasurer and as such shall have a vote on the Chapter Executive Board on matters pertaining to the Chapter only.

(signed)

J. R. GARDNER
V. H. MOORE
CHAS. E. HUGHES, JR.
M. B. WAGGONER
H. E. KAUFMANN
A. A. BRENSLEY
F. S. MOORE
W. S. BURLINGAME
J. F. SWEETNAM

JOHN ASKREN
E. O. CRAWFORD
W. R. STOUNE
G. B. RICHARDSON
F. E. TROXEL
C. B. HOBBS
HOWARD BOLD
A. W. NEUREUTHER
M. L. CLAVERT

Ballot on Constitutional Amendment (dated January 17, 1953)

Note: For your vote to be SECRET, your ballot should be placed in a plain envelope, sealed and put into a mailing envelope with your name on the outside of the mailing envelope. For your vote to be VALID, your name must be written on the mailing envelope. Ballots from CORPORATE members only will be counted. Please mark your ballot, tear off and mail in time to reach the Secretary's office, 631 East Green Street, Champaign, not later than 5:00 p.m., March 16, 1953. VOTE TODAY!

On Constitutional amendment to permit Engineers-in-Training to hold the Chapter office of Secretary, or Treasurer, or Secretary-Treasurer, and have a vote on the Chapter Executive Board on matters pertaining to the Chapter only.

☐ YES

☐ NO

and that as a general rule the nominating committee were well qualified to select able men. He urged the rejection of this amendment, and suggested all members fill out and return the blank in the Illinois Engineer so as to express our preference.

Mr. Porter then turned the meeting over to Mr. Stanley Cutler of the Civil Affairs Committee who gave a brief but enlightening report on the Lockner Plan of Traffic Control. Mr. Day had been asked to report on this, but was unable to be present. Mr. Arnold Lundgren supplemented Mr. Cutler's comments and a general discussion followed. It was agreed that the matter was deserving of more complete discussion before Chapter approval was asked and Mr. Porter announced that this would be held later.

H. A. RIEDESEL, Secretary

Rockford Chapter

The meeting was called to order at 7:45 p. m., Nov. 19, 1952 by President Porter, and the minutes of the October 22nd business meeting were read and approved. Our treasurer reported on funds on hand, after which our visitors were welcomed and introduced.

Mr. Arnold Lundgren reported on a meeting held with the representatives of the Rock River Valley Associa-

tions in which it was suggested that we take the leadership in coordinating meeting dates. Mr. Lundgren outlined a plan which he thought would solve this problem and many others. In general, this plan called for the formation of a standing committee of our organization to be composed of one or more representatives of other technical organizations who were to become members of our organization also. This standing committee would assume the task of coordinating meeting dates as well as considering other plans and projects affecting coordination with other organizations. This plan met with approval, and it was moved and seconded that we make the suggestion at the next meeting of this council. The motion was carried and Mr. Lundgren was asked to carry on.

Mr. Royce Johnson reported on the progress of the Electrical Code Committee. He advised that he had just attended a noon meeting and that another is scheduled for next week at which it is hoped considerable progress can be made. Mr. Porter informed the meeting that the Society had also been asked to supervise the drawing up of a Heating and Ventilating Code for submission to the City Council. One has been prepared and will be submitted. Mr. Porter also advised that an Engineer's Week Committee will shortly be appointed to develop the publicity for this week. Freeport will cooperate in this program.

Mr. Riedesel then reported receipt of a communication from a National Guidance Committee which indicated that work was being done in fostering engineering thought in 28,000 high schools in the country. A questionnaire that had been enclosed was filled out and returned to this committee.

The meeting was then turned over to Mr. Stanley Cutler, sponsor for the evening's program. Mr. Cutler introduced Mr. Bill Day, city engineer (also a member of our society) and Mr. Day gave us a very interesting illustrated talk on the Lochner plan of traffic control for the Rockford area which covers a 20-year program of street rearrangement to handle Rockford's increasing traffic problems. Mr. Stanley Cutler made the motion that notice of our approval of this plan be forwarded to the City Council. Mr. Wagstaff seconded the motion which was duly carried. H. A. RIEDESEL, Secretary

Joliet Chapter

The annual meeting of the Joliet Engineers' Club was held at Little Jack's Restaurant on Plainfield Road on Friday, December 19, 1952. Sixteen members and guests were present.

After a social hour and dinner, the meeting was called to order by President Tittsworth at 8:25 p. m. The minutes of the last meeting were read by Secretary Waltz and approved as read.

Mr. Tittsworth stated that our membership includes five who live in Kankakee. He further stated that these members seldom attend our meetings and perhaps our plans for 1953 should include one meeting at Kankakee.

Secretary Waltz advised he was in receipt of a letter from member Elvin C. Hosback, requesting that we should hold a refresher course in the spring, prior to the next registration examination. He stated there were about 20 engineers at the Texas Company, Lockport, who would be interested, and he was sure there must be others in the Joliet area who would welcome the course. After some discussion, it was decided to consider the matter again at a later meeting.

Treasurer Ryan gave the annual treasurer's report. He stated that we had a little over \$129 in the treasury, which was about the same as when he took office. He advised that 29 members still owed for their 1952 dues, and that some members also owed for their 1951 dues.

Max Seiberling, chairman of the Nominating Committee, presented the slate of new officers for the year 1953, as follows:

President.....	William S. Chaney
Vice-President.....	W. Kenneth Waltz
Secretary.....	Leslie W. Keeler
Treasurer.....	Donald M. Parkis

Mr. Frank G. Campbell moved that the nominations be closed, which was seconded. It was moved by Sanger M. Brown, and seconded by Clarence E. Rogers, that the secretary cast a unanimous ballot for the men nominated by the Nominating Committee. There were no negative votes.

Clarence E. Rogers, who has been our State Representative for the past ten years, resigned because he felt he would be no longer able to give the proper attention to the work because of other pressing matters. A rising vote of thanks was expressed by all present for Scotty's fine handling of a job well done. Max Seiberling nominated William Gray to succeed Rogers. This was seconded by Sanger M. Brown, and a unanimous vote was cast in favor of Mr. Gray as State Representative.

There being no further business, the meeting was closed at 8:45 p. m. The next thirty minutes two short movies were reviewed, namely, "Lipstick and Dynamite" and "Fishing Thrills." W. K. WALTZ, Secretary

West Central Chapter

The November meeting of West-Central Chapter, Illinois Society of Professional Engineers, was held in the Labor Temple, Rock Island, Illinois, on November 20, 1952.

The meeting was called to order at 7:00 p. m., after a fine chicken dinner, family style. Members and guests were introduced around the table.

The minutes of the October meeting were read, and approved as read.

President Missman appointed Past Presidents Bronson, Wiemer and Osborn as a nominating committee to nominate the officers for the coming year.

The president then called upon Mr. James R. Palmer, co-chairman of the state convention committee, who gave a report on the progress of the convention committee

work. Mr. Palmer stated that Hotel Fort Armstrong would be the hotel headquarters for the convention, with sessions held there during the convention.

Kewanee being the next meeting place, it was moved by Mr. Bronson and seconded that the December meeting be Ladies' Night. Motion carried.

President Missman then called upon Mr. James R. Palmer, who gave a short talk on an inspection trip which the members were about to undertake and what was being accomplished by the municipal plant at Rock Island. Upon dismissal the members were taken in cars of the Rock Island members to the sewage disposal plant of Rock Island when the primary and secondary treatments were in operation. After completion of the inspection of the sewage plant, the members were then taken to the filtration plant, where water from the Mississippi River was pumped to the plant and then treated and filtered for distribution to the city of Rock Island.

The meeting was closed at 10:30 p. m., with an attendance of 35 present.

* * * *

The December meeting of West-Central Chapter, Illinois Society of Professional Engineers, was held in Hotel Kewanee on Thursday evening, December 18, 1952, at 6:30 p. m.

After a family style chicken dinner, members and guests were introduced around the table. This being Ladies' Night, many members were accompanied by their ladies. The minutes of the November meeting were read, and approved as read.

President Missman called upon Co-Chairman Lee Osborn of the Convention Committee who gave a report on the committee meeting held in Rock Island in which plans were discussed on the coming state convention and gave an outline of the plans for the coming convention. Comment was also given by Spicer and Farmer on the same subject.

The president then called upon Chairman Bronson of the Nominating Committee who called upon Lee Osborn, a member of the Nominating Committee, who presented the names of James Morrow for president and John Weber for vice-president. No further nominations being in order, Mr. Morrow and Mr. Weber were unanimously elected to the offices of president and vice-president of the chapter.

State President A. D. Spicer then called attention to the coming Engineers Week to be nationally advertised throughout the nation. After much discussion, the chapter president appointed J. H. Dahlberg, John Procter and Walter Zuzuly as a committee to promote an advertising campaign in the West-Central area.

President Missman then called upon Chairman Louis Charlet of the Entertainment Committee, who introduced Mr. Harold E. Babbitt, State Secretary of the Illinois Society of Professional Engineers, and Professor of Sanitary Engineering at the University of Illinois, who presented to the members and their wives a travelogue of the professor's recent trip to Europe, accom-

panied by colored slides. This talk was enjoyed by all.

The meeting closed at 10:00 p. m., with an attendance of 35 members present. CLAUDE F. BATES, Secretary

Lake County Chapter

The regular monthly meeting of the Lake County Chapter was held Wednesday evening, November 19, 1952.

The business meeting was called to order at 8:15 p. m. by President R. Kramer. The meeting was opened by the introduction of members and guests.

The minutes of the October meeting were read and approved.

The treasurer's report was read and accepted as follows:

Bank balance Jan. 5, 1952.....	\$143.01
Receipts	787.00
	<hr/>
	\$930.01
Disbursements	749.90
	<hr/>
	\$180.11
Bank charges for 10 months.....	12.25
	<hr/>
Bank balance.....	\$167.61

President R. Kramer announced his appointments for a nominating committee: Messrs. W. T. Hooper, Jr., S. Simonson, I. R. Lietzke, C. Calkins and R. Thacker.

Mr. William Hooper moved that the chapter secretary be instructed to write the State Secretary protesting the inclusion in the Illinois Engineer of material such as the one paragraph quotation from Theodore Roosevelt appearing on page 6 of the November issue.

President R. Kramer read a citation to the American Steel and Wire Division of the United States Steel Corporation.

Mr. Urban Meyer introduced Mr. Thomas Litras, training supervisor of the "Wire Mill," who discussed the general operation of the local wire mill. He then presented two sound movies. The first movie film, "Building for the Nations," covered the erection of the steel for the United Nations Secretariat Building in New York City. The second film, "The Inner Man Steps Out," was a training film dealing with and intended for supervisory employees. Both were excellent films.

The meeting was adjourned at 10:20 p. m.

I. R. LIETZKE, Sec'y-Treas.

Capital Chapter

The meeting of Dec. 18, 1952 was called to order by President Ryburn at 8:00 p. m. in the American Legion home. Twenty-eight members were present.

The first order of business was the reception of committee reports covering activities for the year 1952:

1. Chairman Arthur Kessel of the Auditing Committee reported that the books of the treasurer had been examined and found to be in excellent order.

2. A written report submitted by Charles Girard, chairman of the Circulation Committee, was read by President Ryburn.

3. A very complete written report on the work of the Air Pollution Study Committee was presented by Acting Chairman LaVerne Hudson. Copies of the report were made available to all members present and are made a part of these minutes. It was moved by Hudson and seconded by Crawford that the recommendation made in the report be accepted. Motion carried.

4. A written report by the Civic Affairs Committee was presented by Dave Abbott, chairman, and is made a part of these minutes.

5. The report of the Civil Defense Committee was presented by Carl Thunman, Sr., chairman.

6. The report of the Education and Registration Laws Committee was presented by Walter Hanson, chairman. This comprehensive report was accepted by the chapter and made a part of these minutes. It was moved by Marquardt and seconded by Kessel that copies be sent to the State Secretary, the Legislative Action Committee and the Legislative Analyzing Committee of the Illinois Society of Professional Engineers; the I. S. P. E. Representative on the Joint Engineering Council; the chairman of Capital Chapter Education and Registration Laws Committee for 1953, and to Capital Chapter Representative Crawford. Motion carried.

7. Claude Morrisett, chairman of our Committee on Inter- and Intra-Society Work, reported briefly on the work being done in connection with recommended revisions to the Illinois Engineering Act. D. S. Magowan, a member of the Illinois Engineering Council, commented that all recognize the need for amendments to the Act but the plans for introducing them have not been completed.

8. A written report by Walter Printy, chairman of the Ethical Practices Committee, was read by the secretary. It was moved by Murphy and seconded by Hudson that a copy of this report be forwarded to the State Committee on Ethics and Practice. Motion carried.

9. A written report by S. T. Anderson, chairman of our Junior Counseling Committee, was read by President Ryburn.

10. Herb Brantley, chairman of the Membership Committee, reported on the current drive for new members. His report is made a part of these minutes.

11. A written report on the work of the Program and Meeting Committee was presented by 1952 Chairman Arthur Thorsell. His report was well received and made a part of the minutes.

12. Chairman S. J. Collamore presented the report of the Publicity Committee.

Other chapter committees failed to have their reports in on time for the scheduled meeting. Upon receipt, however, they will be made a part of the permanent chapter records.

The next order of business was the election of officers for 1953. The report of the Nominating Committee was

presented by Chairman LeSueur Hendrick at the last regular meeting. The committee's recommendations were presented and acted upon in the following order and with the following results:

D. S. Magowan, President; M. R. Golly, Vice-President; David Abbott, Secretary; A. A. Thorsell, Treasurer; L. S. Ryburn, Chapter Representative.

Following election of officers, retiring officers presented their reports and the new officers were inducted.

A social session followed the business session and appropriate refreshments and good fellowship were enjoyed by all.

CHAS. H. MERCHANT, Secretary

Peoriarea Chapter

The December 20, 1952 meeting was held at the home of Mr. L. P. Murphy. Potluck dinner was served after which a short business meeting was held.

Election of officers for the year 1953 was held. The officers elected were: president, Mr. C. T. Borchelt; vice-president, Mr. John R. Longley.

The chapter also passed a motion by Borchelt, seconded by Murphy, that the chapter sponsor a Ground Water Resources School to be held in Peoria. The secretary was instructed to inform the State Water Survey Division of the action and to find out if they are still interested in conducting a school.

The remainder of the evening was spent in social activities. The meeting was designated as "ladies' night" which made the social activities a success.

C. G. SAVILLE, Secretary

Illinois Valley Chapter

The regular meeting of the Illinois Valley Chapter of The Illinois Society of Professional Engineers Incorporated was held on November 25, 1952, at The Pines, north of Streator, Illinois.

Thirty-two members were present. We enjoyed a very fine fillet mignon dinner, which is typical of The Pines. After dinner President Louis Bowman called the meeting to order and introduced Mr. A. D. Spicer, the State President, and other guests present. The minutes of the previous meeting were read and accepted. The treasurer's report was read and accepted.

In memory of our good friend and member, Jack Moran, the members stood for one minute in silent tribute.

Mr. A. D. Spicer, the State President, our guest and speaker for the evening, spoke on the Engineering Society, and its many ramifications. We all enjoyed his entertaining and instructive talk. An interesting period of questions and answers followed.

ROSS WAITE, Secretary

DuKane Chapter

DuKane Chapter's Ladies' Night and Installation of Officers dinner meeting was held on Dec. 18, 1952 and was attended by 40 members and their ladies and guests. A delicious baked capon dinner was served on a beautifully decorated, candle-lit table.

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Immediately after the dinner, Past President Victor H. Kasser installed the following as officers of DuKane Chapter for the year 1953:

W. A. Rakow, President

George M. Booth, Vice-President

Noel F. Thomas, Secretary-Treasurer

Douglas E. Dreier, Chapter Representative.

The meeting was then turned over to Engineer James A. Stevens who introduced Mr. Robert H. Larson, a representative of the DuKane Corporation of St. Charles. The DuKane Corporation is a pioneer in the field of electronics. Mr. Larson explained the use of some of DuKane's late models of audio-visual educational de-

vices, and illustrated the effectiveness of the method of presentation with some take-offs on the poetry of James Whitcomb Riley and Robert Service. On the "hole," it was a very enjoyable evening.

GEORGE M. BOOTH, JR., *Secretary*

I hold every man a debtor to his profession;
from the which as men of course do seek to re-
ceive countenance and profit, so ought they of
duty to endeavor themselves by way of amends
to be a help and ornament thereunto.

Sir Francis Bacon

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Draftsman. E.E. 61. Six years draftsman, made corrections to tracings, misel. drafting, survey and design of subdivision improvements. U.S. \$5000. 533-PE

General Manager. M.E. 49. One year and one-half supt. of plant facilities. Eight years research engineer in charge of production, research and product development. Eight years supt. of constr. \$12,000. Midwest. 534-PE

Draftsman. 41. Eight yrs. doing mechanical detailing and piping. Four years detailing parts. Chicago. \$5400. 535-PE

Patents. C.E. 30. Six and one-half yrs. structural engr., doing design of concrete structures. U.S. \$7200. 536-PE

Metallurgist MET. 24. Two yrs. metallurgical observer in open hearth, scrap yard foreman and scrap inspector. Midwest. \$5200. 537-PE

Sales Engr. 32. Six yrs. selling promotion, advertising, purchasing, supervise install. work. Chicago. \$6000. 538-PE

Sales Engr. M.E. 40. One yr. designed 2 water coolers. Six yrs. sales engr. selling brand and cutting tools to industry. Two yrs. chief prod. engr. in charge of processing, tooling and inspection. Midwest. \$7200. 539-PE

Development. M.E. 38. Seven yrs. development engr. responsible for selection, testing of Army field equipment. Midwest. \$6000. 540-PE

Field Engr. C.E. 25. Two and one-half yrs. supervision of layouts, lot surveys, purchasing payroll, report writing and specification work. Chicago. \$4500. 541-PE

Field Engr. C.E. 24. Seven mos. inspection and supervision of various construction and maintenance jobs. Midwest. \$4500. 542-PE

Designer. M.E. 34. Four yrs. eight mos. design engr. in process and chemical plants. One yr. four mos. instrument man on erection and layout of jigs and fixtures for aircraft production. \$6500. Outside Chicago. 543-PE

Field Engr. C.E. 25. Twenty-three mos. jr. designer doing preliminary and final design on reinforced concrete, estimating, hydrologic and hydraulic studies and some specification work. Chicago. \$4200. 544-PE

Constr. Supt. C.E. 28. One yr. supervise

work of engrs. on construction of blast furnace plant. Eleven mos. supervising field parties in supplying lines and grades for blast furnace plant. Midwest. \$6000. 545-PE

Field Engr. C.E. 26. Two yrs. doing design, drafting, surveying and field supervision and insp. for U. S. Army. Three mos. estimating of quantity and cost of concrete material. \$4800. Midwest. 546-PE

Field Engr. C.E. 26. Three and one-half yrs. construction engr. doing inspection and layout of work and assisted in testing of soils concrete. Midwest. \$5600. 547-PE

POSITIONS AVAILABLE

Laboratory Business Manager. B.S. Chem. Eng. or Eng. Minor Bus. Adm. Age: 25-35. 2 years exp. engineering, research or lab. administration preferably M.S. in Business Administration. Knowl.: business methods. Duties: administrative asst. to research director leading toward complete responsibilities for business aspects of lab. and pilot plant budgets, purchases, office stock systems, library, etc. For a mfg. ind. adh. tapes. Employer will neg. fee. Location: Chicago. R-9553(a)

Product Development Chemist. B.S. Chemist. Chem. Eng. Age: 23-35. No experience required. Preferably development in area of plastics, polymers, textiles, rubber. Knowledge of organic, physical chem. eng. processes. Duties: product development on industrial products related to adhesive and plastic film. For a mfr. ind. adh. tapes. Salary: \$3900-\$4600 per yr. Employer will negotiate fee. Location: Chicago. R-9553(b)

Technical Service Representative. B.S. Chem. Eng. Age: 25-35. 2 yrs. exp. physics. Some technical selling, product development activity or technical service lab. Knowledge of plastics, rubber, electrical or transportation industry. Duties: consultation to present a potential customer in the field, analysis of problem, return to lab. to direct or carry out solution and translate to customer. (Estimated 30% travel). Salary: \$3600-\$5500 per yr. Location: Chicago. Employer will negotiate fee. R-9553(c)

Technical Service Instrumentation. M.S. Chem. Physics: Ph.D. E.E. Age: 25-35. 2 yrs. exp. electronics, instrumentation, optics, E.E. Knowledge of plastics, physics, chemistry. Duties: Asst. to technical service head performing duties in instrumentation and appraisal functions on (a) mechanical and electrical tests on industrial pressure-sensitive adhesive tapes, (b) establishment re-

search section on instrumentation. For a manufacturer of ind. adh. tapes. Salary: \$4000-\$6000 per year. Location: Chicago. Employer will negotiate the fee. R-9553(d)

Civil Engineer. College deg. Age: 35 or under. 5 years exp. survey, design and construction supervision highways and city streets. Know: of sanitary sewer and water works design. Duties: civil engineer on municipal improvements, design and construction supervision. For a civil engineering firm. Salary: \$5000-\$7000. Employer will pay fee. Local traveling. Location: Illinois. T-9547

Jr. Design Draftsman. M.E. Age: 21-30. Recent grads. or better. Duties: drafting and design calculations to start and decreasing as more engrg. responsibilities are assigned in plant engrg. dept. of a meat packer. Salary: \$80-\$95 per week. Location: Wisconsin. T-9513(a)

Assistant Purchasing Agent. Eng. degree. Age: 28-40. 2 plus yrs. exp. in production scheduling or inventory control. Knowl.: C.M.P. regulations desirable. Duties: assisting in supervising purchasing department on machinery, equipment, and production supplies for a meat packer. Salary: \$110-\$120 per week. Location: Wisconsin. T-9513(b)

Industrial Eng. Age: 28-35. 1 plus yrs. exp. time study work. Duties: establishing labor measurement standards from time studies and micro motion studies. Salary: \$400 mo. Location: Chicago and Iowa. T-9513(c)

Project Engr. Age: up to 45. 3 plus yrs. exp. in metals and preferably shell castings. Desirable that man have sheet metal shop background. Duties: project work on sheet metal and shell casings. Must be citizen. For a mfr. of sheet metal products. Salary: \$600-\$700. Location: Chicago. Employer will negotiate the fee. R-9512(a)

Mech. Design-Draftsman. 3 plus yrs. exp. in sheet metal layout or drafting for tools, jigs, and fixtures. Duties: drafting and layout of tools, jigs and fixtures for sheet metal products. For a mfr. of sheet metal products. Salary: \$400-\$500. Location: Chicago. Employer will negotiate the fee. R-9512(b)

Lab. Technician. Age: up to 40. 3 plus yrs. exp. in gas combustion equipment. Knowl.: testing of appliances. Duties: testing gas appliances, doing some research and development. For a mfr. of gas appliances. Salary: \$400-\$500. Loc.: Chicago. R-9512(c)